# XXX. NWA1950 (Jules Verne)

Lherzolitic Peridotite ~ 797 grams (2 stones)



Figure XXX-1. Photo of NWA1950 (courtsey of Bruno Fectay and Carine Bidaut). Scale is in cm. (fingers unknown).

# **Introduction**

Russell et al. (2004) report that two stones (414 and 383 grams) were found in the Atlas Mts. Morocco in 2001. They both have fusion crust (figures XXX-1 and XXX-3).

## **Petrography**

The texture of NWA1950 is similar to that of ALH77005 (figure XXX-2).

# **Mineralogy**

**Pyroxene:** Pigeonite is  $En_{78}Fs_{19}Wo_2-En_{60}Fs_{26}Wo_{14}$ . Augite is  $En_{53}Fs_{16}Wo_{31}-En_{45}Fs_{14}Wo_{41}$ .

*Plagioclase:* Plagioclase is shocked to maskelynite An<sub>57-40</sub>.

#### **Chemistry**

The rare earths have been determined (figure XXX-4) and are found between ALH77005 and NWA480.

# Radiogenic age dating

None

## Cosmogenic isotopes and exposure ages

None

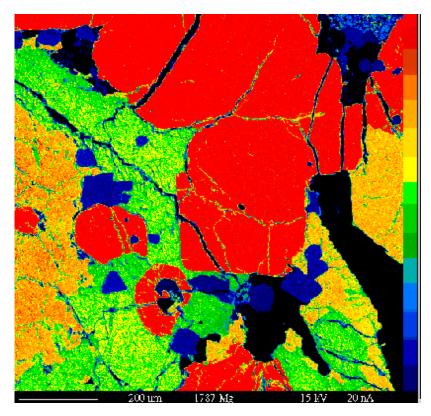


Figure XXX-2: Texture of polished section of NWA1950 (courtesy J-A.Barrat and Marcel Bohn). Minerals generally lack chemical zonation. This striking photo is a map of Mg content of olivine (red), chromite and or ilmenite (blue), maskelynite (black), pigeonite (orange) and augite (green).

# **Mineralogical Mode**

Russell et al. 2004

Olivine 55 vol. % Pyroxene 35 Plagioclase 8



Figure XXX-3: Jules Verne #2 (photo courtsey Bruno Fectay and Carine Bidaut). Scale is in cm.

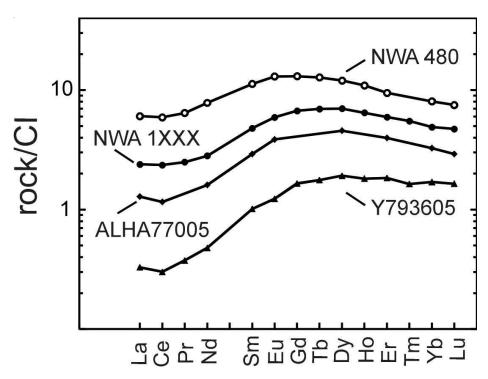


Figure XXX-4: Rare-earth-element pattern for Jules Verne (NWA1950) (from Barret).